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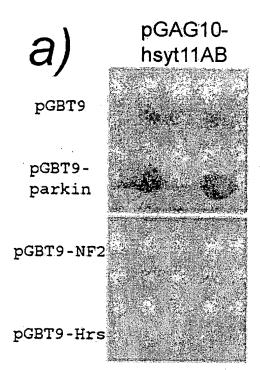
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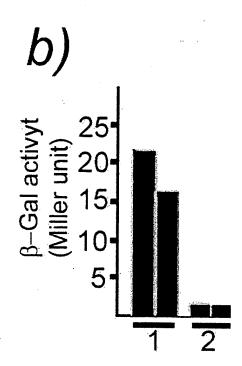
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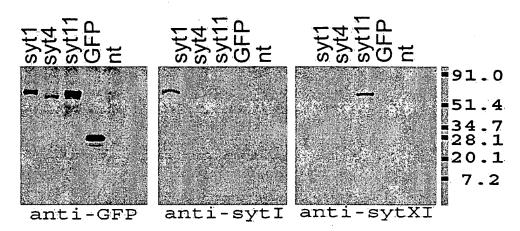
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Inventor: Pulst and Huynh Filing Date: Herewith Attorney Client-Matter No.: 66783-145 Tel: 858-535-9001

a)



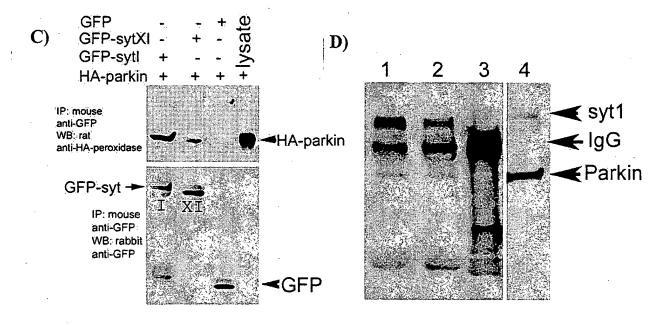
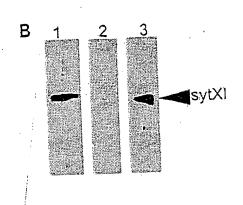
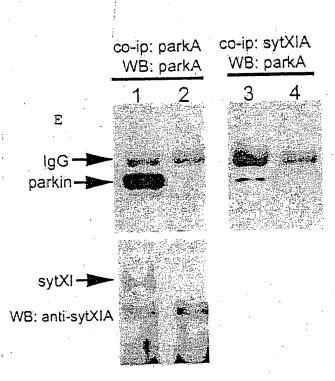
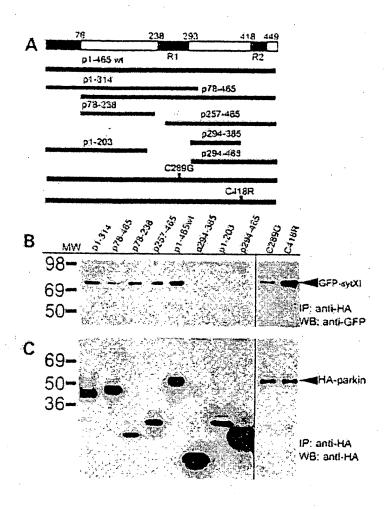


FIGURE 2

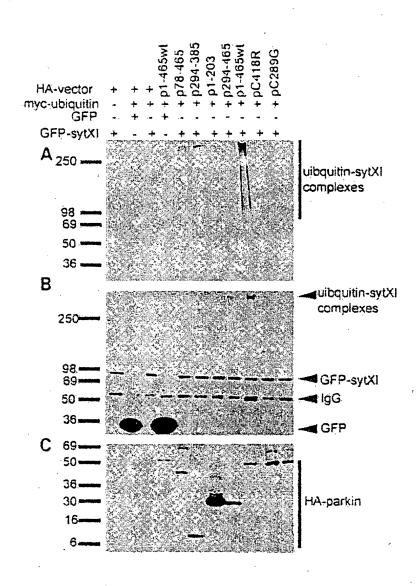




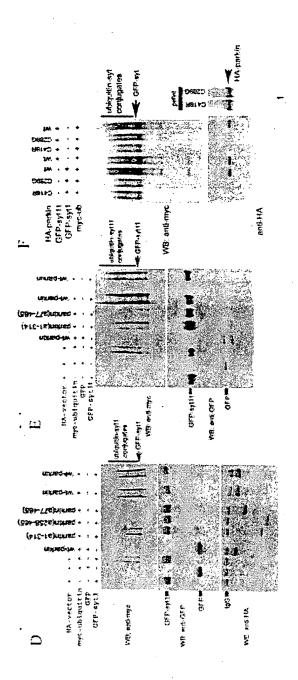
Figures 2B & 2E



Figures 3A-C

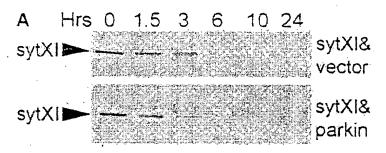


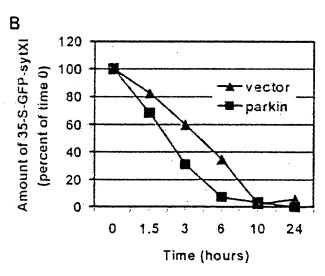
Figures 4A-C



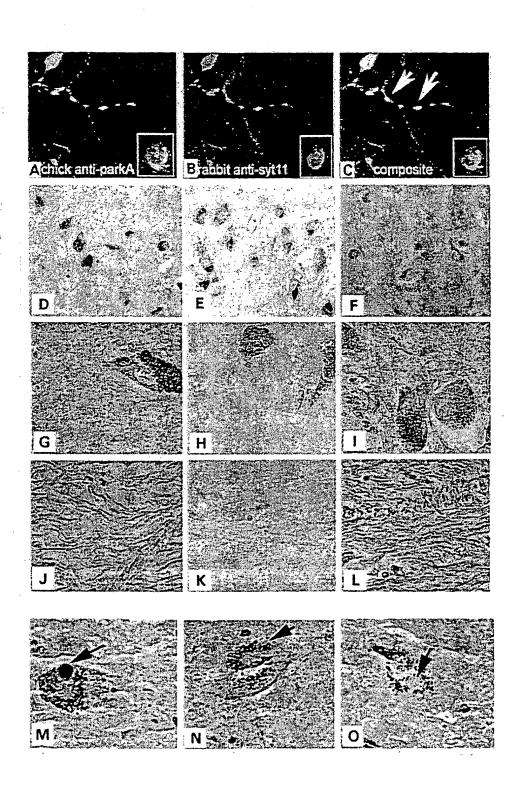
FEGURE 4

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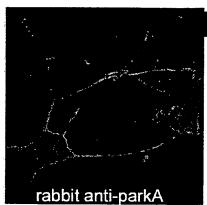


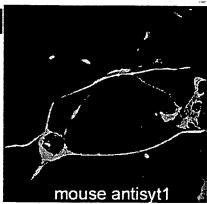


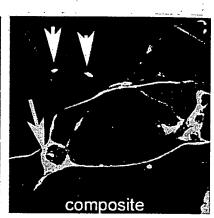
Figures 5A & 5B



Figures 6A-O







P

R

FIGURE 6

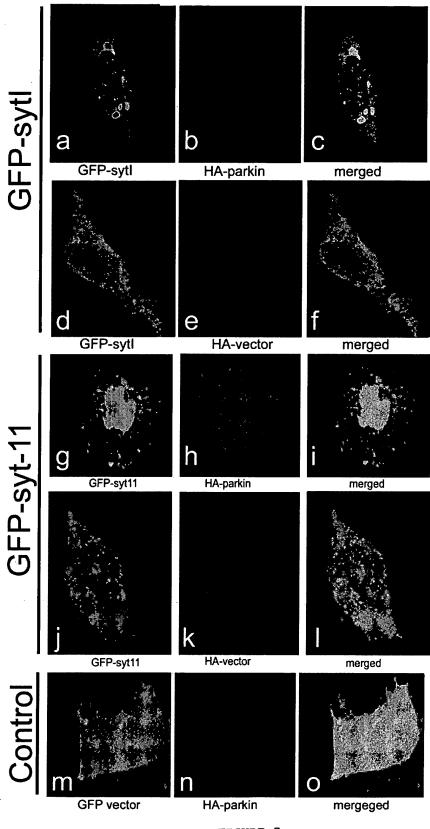


FIGURE 7

	agt	cct	caa	cga	ıggg	igto	cag	tgt			gtga +		gca	cat	ago	:tgt	tga	gct	caç	ıcga
	tca	ıgga	igtt	gct	ccc	cag	gto	aca			cact		cgt	gta	tcg	aca	act	cga	gtc	
61	ggc	ggg	gct	:gtg	gata	cct	.cgg	ccc	ggt	tt	ttac +- - -	cga	tgt	cct +	cct	ccc	gca	ggt	aga	act
	ccg	ccc	cga	cac	tat	gga	gcc	ggg	jcca	aaa	aatg	gct	aca	gga	gga	ggg	cgt	cca	tct	tga
	ggg	ago	aaa	· igat	cag	ccc	act	ggg	gcaç	gtgo	ccct +	ggt 	cat	• gta +	gg g	taa	cag	cct	tga	.ccc +
	ccc	tco	ttt	cta	gtc	ggg	tga	ccc	gto	cac	ggga	cca	gta	cat	ccc	att	gtc	gga	act	-+t .ct+tga .cc+tg .gg-ct .TT+CA .GG+tGG .TT+AA .GG+CGG+
	cac	caa	.gga	· itga ·+	tgt	tct	tag -+-	cga	tct	cca	acgc +	cca	ggc	ccc +	gca	ggc	ctg -+-	ata	cca	gga +
	gtg	gtt	cct	act	aca	aga	atc	gct	aga	ıggt	geg	ggt	.ccg	ggg	cgt	ccg	gac	tat	ggt	cct
	cac	tgg	atg	· tct	gga	gcc	gct -+-	tca	itto	rcct	cat 	GGC	CCA	ACA +	CAT	ACA	GCT -+-	GCC	GGG	AGT
	gtg	acc	tac	aga	cct	cgg	cga	agt	aac	gga	agTA M	CCG A	GGT' Q	TGT H	GTA I	TGT Q	CGA L	CGG P	CCC G	TCA
	AAA	.GGC	CCT	CGI	CTA		CTG -+-				CCGT		TGG				TGG	TTG	GCA	CCG
	TTT K	CCG A	GGA L	GCA V	GAT Y						GGCA V						ACC G	AAC W	CGT H	
	AGG	GCA	CTT	· CGG	ACA	ACA	CGG -+-	ACT	'GGG	CAC	GGGG +	AGC	AGT'	TAG +	AAC	CCG	GCT -+-	TTG	GAT	CAG
	TCC G	CGT H	GAA F	.GCC G	TGT Q	TGT H	GCC G	TGA L	G G	GT(R	CCCC G	TCG A	TCAZ V	ATC R	TTG T	GGC R	CGA L	AAC W	CTA I	-+t .ct .ct .ct .ct .ct .ct .ct .ct .ct .c
	GCC	CGG	ACA	.CGC +	GAC	GTT	TCT -+-	TGG	ACA	GC0	GGCG	AGC	TGG	ACA	TCA	ATG	CCG	GTT	ccc	CGG
		_	TGT H								CCGC R									
31					CCA						GAA									CTT
	CAG	CGC	GGC	GGC	GGT	TGA	GGA	GTT	CCT	CGG	CTT	CGG	TTC	GGG	CCG	GCG'	TGG	GAG	GAG	
S R R R Q L L K E P K P S P A A P S S F CTCCTCCTCCCCGCCGCCTGGGCCGCCTAGAATCGCCGCTGCCGCCTTCTCCCCCCGG																				
	GAG	GAG	GAG	GGG	CGG	CGG	ACC	CGG	CGG	ATC	TTA	GCG	GCG	ACG	GCG	GAA	GAG	GAG	GGG	GCC
											CCT							_	_	

GGC R	AAC C	ACC G	+ AAC C	ACC G	AACI C	-+- AGG P	GAC	GGT	 rgg/ L	AGG <i>F</i> L	ATG T	TCG	+ GCT E	CGG	 GCGG	-+- GCT(GTGT Q	TCI	 'ACC G
CGG	ACG	CTt	GAG	CCT	GGG	GCC	GGA	ACF	AAA/	ACCI	'TGG	GCC	CCA	ccc	CCA	GAZ	AACC	CGG	ATG
		GAa L		GGA L	CCC	CGG P	CCT E	TGT Q			ACC G			GGG		CTT K	TGG P		TAC C
CAAGCGGCCCGCCCTACTTATGAATCATGCATAAAGTTCCCTACTCGGTTGCGATTCA														CAT					
		CCG A			ATGA T	AAT Y	ACT E	TAC S					GGG. P	ATG	AGC R	CAA L	ACGC R	TAA	GTA
TCG					ACA(CGAA	AAC	AGG
	CAA		TCA	CCT	TGT(Q		GGT		ACCA				•			•	CTT K	TTTG	TCC G
			+		GCC1	-+-			+				+			-+-			+
AtT K		TCT E	cCG A	GTG T	CGG <i>I</i> P	AGT. H	ACC G	TTA M	ACGC R	TGA L	ATTA M	CTT N	ACT' E	TAA L	CAA L	.CG1 Q	CGG P	TCC G	GAC C
TCA	AGG	AAG	CGA.	AgA.	AAAA	ACC	GTT	AAG		CATG				TAT	AAG	TTA	TGC	ATG	AAG
AGT Q		TTC S	GCT E	TcT' E	TTTI K	rGG P	CAA L	TTC R	CGG P	TAC C	GAA F	GGA(CTA	ATA I	TTC S	IAA Y	'ACG A	TAC *	TTC
TTG	AGT	GGT	TGG' +	TAG	CAAC	CAA	CCA	GCA	ACC	AGA	AAG	CAG	• ATG' +	TTA	AAA 	CAI	'GGA	AGC	CAC
AAC	TCA	CCA	ACC.	ATC	GTTC	STT	GGT	CGT	TGG	TCT	TTC	GTC'	rac:	TAA	TTT	GTA	CCT	TCG	GTG
ACA	CCC	CCA'	TTC	ATG	ATN	JAA'	TGA	TGA		TGC						AAG	GAG	ACC	CAG
TGT	GGG	GGT	AAG'	TAC'	TTAN	TT	ACT.	ACT					•			TTC	CTC	TGG	GTC
					ATG <i>P</i>														
					raci														
					ATCI														
		ATA				т							,						

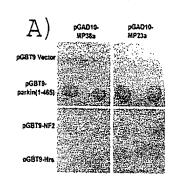
FIGURE 8A CONTINUED

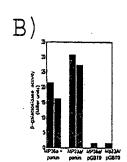
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	. CAGAGAGGTCAAGAAAGGTTCCACCCAATTTATGAATTATGCATAAGGCGAAGAAACACC										
1261	GTCTCTCCAGTTCTTTCCAAGGTGGGTTAAATACTTAATACGTATTCCGCTTCTTTGTGG	1320									
1321	CAAGACTGCCCTGCCCCTCATTTACATAAATATTATACTAGCATTTACCATCTCACTTCT	1380									
	GTTCTGACGGGACGGGAGTAAATGTATTTATAATATGATCGTAAATGGTAGAGTGAAGA										
1381	AGGAATACTAGTATATCGCTCACACCTCATATCCTCCCTACTATGCCTAGAAGGAATAAT										
	TCCTTATGATCATATAGCGAGTGTGGAGTATAGGAGGGATGATACGGATCTTCCTTATTA	1440									
1441	ACTATCGCTGTCG										

FIGURE 8A CONTINUED

gaattcgcggccgcgtcgacCTCCTTCTCCTCCCCCGCCGCCTGNGCCGCCTAGAATCGCCGC TGCCGCCTTCTCCTCCCCGGCCGTTGTGGTTGTGGTTGTCCCTGCCACCTCCTTACA GCCGAGCCGCCGACACAAGATGGCGGACGCTGAGCCTGGGGCCGGAACAAACCTT GGGCCCCACCCCAGAAACCCGGATGCAAGCGGGCCGCGCCTACTTATGAATCATG CATAAAGTTCCCTACTCGGTTGCGATTCATTCGGTTAGAAGTGGAACAGCACCACCT GGTGGACATTGTGGCAGTAACAACGAAAACAGGTNAAACAGAAGCCACGCCTCATG GAATGCGACTAATGAATGAATTGTTGCAGCCAGGCTGTCAAGGAAGCGAAAAAAA ACCGTTAAGGCCATGCTTCCTGATTATAAGTTATGCATGAAGTTGAGTGGTAG ACTTAACAACCAGCAACCAGAAAGCAGATGTTAAAACATGGAAGCCACACACCCCC ATTCATGAATAATGATGATCTTGCAGGGGCCCGGAAGCCAAGGAGACCCAGGCCAC AACTTACTTCATGAATAATGCATGAGGCCCAGTGGGTTGGAATAAAAGGGGCACGC CCGCCTATTGCTGCATCTAATACACTGTAAGCAGGGAAATGGGGCTGCTGCAGGGA AAACACACTCTCCCAGGTCCTGAATAATGAATTATGCTGCTGCAGTAGCTCAACCTG GAAACTCAGAGAGGTCAAGAAAGGTTCCACCCAATTTATGAATTATGCATAAGGCG AAGAAACACCCAAGACTGCCCTGCCCCTCATTTACATAAATATTATACTAGCATTTA CCATCTCACTTCTAGGAATACTAGTATATCGCTCACACCTCATATCCTCCCTACTATG CCTAGAAGGAATAATACTATCGCTGTCGacgcgggccgcgaattc

FIGURE 8B





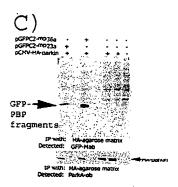


FIGURE 9

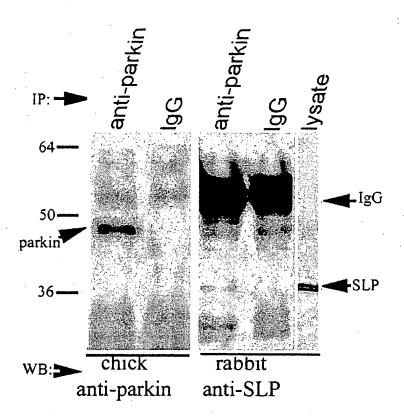
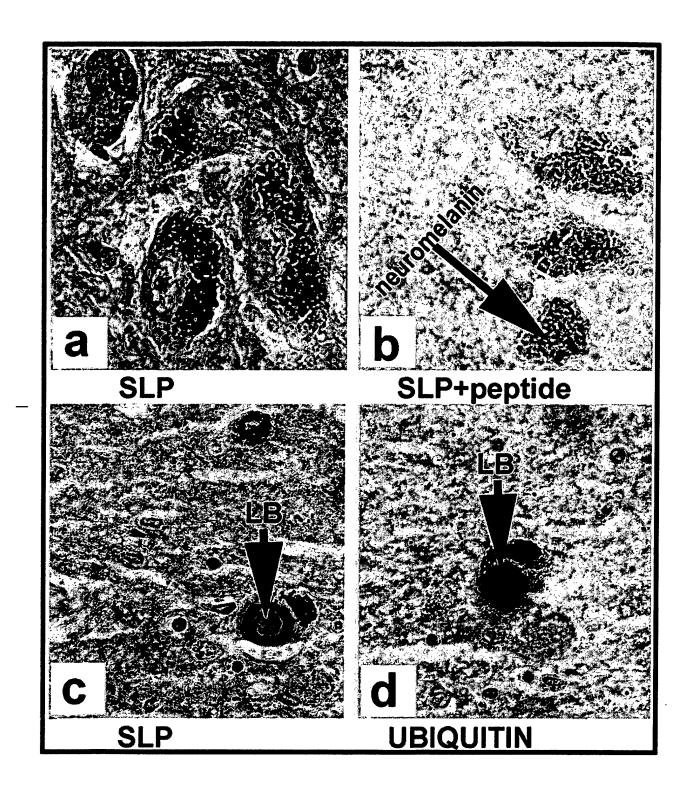
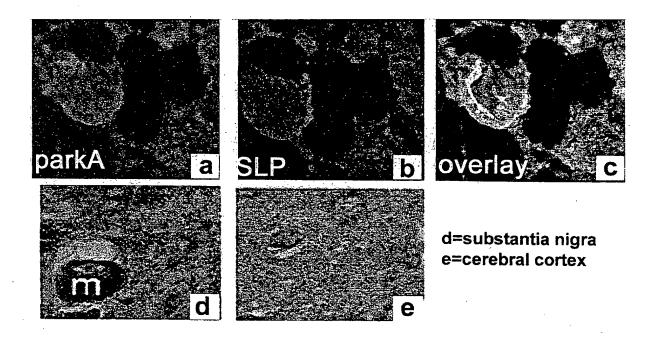


FIGURE 9D





Title: PARKIN INTERACTING POLYPEPTIDES AND METHODS OF USE Inventor: Pulst and Huynh Filing Date: Herewith

Attorney Client-Matter No.: 66783-145 Tel: 858-535-9001

1 agagcactgg ggaccgagac ccggcaccac ctcccggtcc gccctccagg gaaaacggga 61 aaactagcaa gagctagcaa gaactagcaa gagcttgaac aaacgcctgg actcagattg 121 gaagactgct catttgtcta ctgcctcatt cctggaaatt gcactggaac tgtctgatta 181 agaaaaacag aataattotg aaagaaagaa aacaaagaaa aacatactoo agaattoota 241 atagaacact tcacctgaac ctaaaatggt gagcgagagt caccatgagg ccctggcagc 301 cccgcctgtc accactgtcg cgactgttct gccaagcaat gccacagagc cagccagtcc 361 tggagaagga aaggaagatg cattttctaa gctgaaggag aagtttatga atgagttgca 421 taaaatteea ttgecacegt gggeettaat tgeaatagee atagtegeag teettttagt 481 cctgacctgc tgcttttgta tctgtaagaa atgtttgttc aaaaagaaaa acaagaagaa 541 gggaaaggaa aaaggaggga agaatgccat taacatgaaa gatgtaaaag acttagggaa 601 gacgatgaaa gatcaggccc tcaaggatga tgatgctgaa actggattga cagatggaga 661 agaaaaagaa gaacccaaag aagaggagaa actgggaaaa cttcagtatt cactggatta 721 tgatttccaa aataaccagc tgctggtagg gatcattcag gctgccgaac tgcccgcctt 781 ggacatgggg ggcacatctg atccttacgt gaaagtgttt ctgctacctg ataagaagaa 841 gaaatttgag acaaaagtcc accgaaaaac ccttaatcct gtcttcaatg agcaatttac 901 tttcaaggta ccatactcgg aattgggtgg caaaacccta gtgatggctg tatatgattt 961 tgatcgtttc tctaagcatg acatcattgg agaatttaaa gtccctatga acacagtgga 1021 ttttggccat gtaactgagg aatggcgtga cctgcaaagt gctgagaagg aagagcaaga . 1081 gaaattgggt gatatetget tetecetteg etaegtaeet aetgetggta agetgaetgt 1141 tgtcattctg gaggcaaaga acctgaagaa gatggatgtg ggtggcttat ccgatcctta 1201 tgtgaagatt catctgatgc agaatggtaa gaggctgaag aagaaaaaga caacaattaa 1261 aaagaacaca cttaacccct actacaatga gtcattcagc tttgaagtac cttttgaaca 1321 aatccagaaa gtgcaggtgg tggtaactgt tttggactat gacaagattg gcaagaacga 1381 tgccatcggc aaagtctttg tgggctacaa cagcaccggc gcggagctgc gacactggtc 1441 agacatgctg gccaacccca ggcgacctat tgcccagtgg cacaccctgc aggtagagga 1501 ggaagttgat gccatgctgg ccgtcaagaa gtaaaggaaa gaagaagcct ttctgcattt

Inventor: Pulst and Huynh Filing Date: Herewith Attorney Client-Matter No.: 66783-145 Tel: 858-535-9001

FIGURE 12A CONTINUED

Inventor: Pulst and Huynh Filing Date: Herewith
Attorney Client-Matter No.: 66783-145
Tel: 858-535-9001

MVSESHHEALAAPPVTTVATVLPSNATEPASPGEGKEDAFSKLK

EKFMNELHKIPLPPWALIAIAIVAVLLVLTCCFCICKKCLFKKKNKKKGKEKGGKNAI

NMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEEEKLGKLQYSLDYDFQNNQLL

VGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPVFNEQFTFKVPYS

 $\verb"ELGGKTLVMAVYDFDRFSKHDIIGEFKVPMNTVDFGHVTEEWRDLQSAEKEEQEKLGD"$

 ${\tt ICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLKKKKTTIKKN}$

TLNPYYNESFSFEVPFEQIQKVQVVVTVLDYDKIGKNDAIGKVFVGYNSTGAELRHWS

DMLANPRRPIAQWHTLQVEEEVDAMLAVKK

FIGURE 12B

Inventor: Pulst and Huynh Filing Date: Herewith Attorney Client-Matter No.: 66783-145 Tel: 858-535-9001

1 agaaggegga gectaeetet cateaggace agtetgactg cacetgeate ettageteag 61 agcateceeg gageatetta agagetgage geagetgaea aetaggggee ggaeegtege 121 aggaggcgtc cgctggatac cttccccctt ccctgaccta gagctctaca gctqctqcct 181 cggtactgac cgagggttcc cagagctgtc tcaccattgc aaaaacgtta tagcaacagc 241 ctctgattac gacatggctg agatcaccaa tatccgacct agctttgatg tgtcaccggt 301 ggtggccggc ctcatcgggg cctctgtgct ggtggtgtgt gtctcggtga ccgtctttgt 361 ctggtcatgc tgccaccagc aggcagagaa gaagcacaag aacccaccat acaagtttat 421 tcacatgctc aaaggcatca gcatataccc agagaccctc agcaacaaga agaaaatcat 481 caaagtgcgg agagacaaag atggtcctgg gagggaaggt ggacgtagga acctgttggt 541 ggacgcagca gaggctggcc tgctaagccg agacaaagat cccagggggc ctagctctgg 601 atcttgtata gaccaattac ccatcaaaat ggactatggg gaagaactaa ggagccctat 661 tacaageetg acceetgggg agageaaaac caceteteca teatetecag aggaggatgt 721 catgctagga tccctcacct tctcagtgga ctataacttc ccgaaaaaaag ccctggtggt 781 gacaatccag gaggcccacg ggctgccagt gatggatgac cagacccagg gatctgaccc 841 ctacatcaaa atgaccatcc ttcctgacaa acggcatcgg gtgaagacca gagtgctgcg 901 gaagaccetg gaccetgtgt ttgacgagac etteacette tatgteatee eetacageea 961 gctgcaggac ctggtgctgc acttccttgt cctcagcttt gaccgcttct ctcgggatga 1021 tgtcattggc gaggtcatgg tgccactggc aggggtggac cccagcacag gcaaggtaca 1081 actgaccagg gacatcatca aaaggaatat ccagaagtgc atcagcagag gggagctcca 1141 ggtgtctctg tcatatcagc ctgtggcaca gagaatgaca gtggtggtcc tcaaaqccag 1201 acacttgccg aagatggata tcaccggtct ctcaggtaat ccttatgtca aggtgaacgt 1261 ctactacggc agaaagcgca ttgccaagaa gaaaacccat gtgaagaagt gcactttgaa 1321 ccccatcttc aatgaatctt tcatctacga catccccact gacctcctgc ctgatatcag 1381 catcgagttc ctcgttatcg acttcgatcg caccaccaag aatgaggtgg tggggaggct 1441 gatcctgggg gcacacagtg tcacagccag tggtgctgaa cactggagag aggtctgcga

Inventor: Pulst and Huynh Filing Date: Herewith Attorney Client-Matter No.: 66783-145 Tel: 858-535-9001

1501 gagcccccgc aagcctgtgg ccaagtggca cagtctgagc gagtactaat cctgttcttc 1561 teteetetaa teeeeggggg ceaagetggg gagggatgtg gaggggaaaa agatgacaga 1621 gaagtggact ccaaacctca ttttagttgt agaagaaaat ttcttacaaa acaaattcca 1681 caaagaacac cctatatgac cacagctgca gatcagttct tagcaatgat gtttttttt 1741 ctgctttgca aggcgctaga atcttttatt ttactttatt tttttttgagg tqqaqtttcq 1801 ctcttgttgc ccgggctgga gtgcaatggt gagatetcaa ctcactgcaa cctctgccct 1861 tcaggttcaa gtgattctcc tccctcagcc tcccaagtag ctgggattac aggcacccac 1921 gagcatgccc ggctaatttt ttgtattttc agtagagatg ggtttcacca tgttggccag 1981 gctggtctcg aattccagac ctcaggtgat ccacccgcct cggcctccca aagtgctggg 2041 attacaggtg cgagccaccg tgcccggcct ctggttttgt tttgtttttt tttttaatg 2101 ggggacaaaa gagagggaaa gacccctata aatctatata taacaatgta accatatact 2161 tgcatgtcta atacaaactg aagaaattag cctaactgcc aatatcaagt tgcagatttt 2221 aatccatgga aattgtgttt tgtgctgaat tgtatttgct gattacctga aattgqcttc 2281 tttttattgg gcttctctgg agaatttctc ccactcccca cctctgcaga agaaaatttt 2341 getettataa aaceteatgt ttteateatt cetatetttt etttttattg eetettatat 2401 ctctgctctt tgacctcaag gtctagaggt ctgcagtaag ccaagaaaca aaggtggggt 2461 ggatgaggca aggtttgcag gagaaagagg aattgagaaa tggggtattt ttgctatcag 2521 ctcttctgct atgaagtagt aaaaggcagt ctataattaa ctgacagacc taactgaagc 2581 acagagaata catcagactt atgcatccaa gacatcagaa cttggatttt atcaaacttg 2641 atgacttete taaaaggage tttggaaaet teaaatteag etataggata gtaceaatga 2701 acacatccag ctgatcccaa aagctgtttt caggtataag gacaaggaga ggagacaagt 2761 gacgacagee atteceettt geagetatet actgtagtga cagecattte ttggttqatq 2821 ggttggaagt catcagaggt ttgaagaatt acactggcct ttgtttttct ggaaatgccg 2881 accatggaga tgctttagag tcttctaaaa tagcttagat gttgtaatga ggttagcttt 2941 gcttcataaa acaggggccc tcagaagttc tccttaaatt tttcaataaa aatttagctc 3001 ttaaaaaaat aacagtgtga ctgagtgaat gaagataagt tggattcttt cagagcattc 3061 ttttcctcaa aacgagctgc ataattcttg gaatttatgt cttaccacat ggtggaggga

Title: PARKIN INTERACTING POLYPEPTIDES AND METHODS OF USE Inventor: Pulst and Huynh

Filing Date: Herewith
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Tel: 858-535-9001

3121 tgggggaact acaggatgca attettette taccaatggg caatagaggt tgagagagat 3181 teageatett tetgggatta gaatteaagt etetttaete etacageage tgegteteea 3241 acgttgagac tttgcagatg gcacagactc catggataat aggtaaactt ggggccgggc 3301 gcagtggctc acgcctgtaa tcccggtatt ttgggaggcc gaggtggaaa gatcgcttga 3361 geceaggagt teaagaeeag eetgggetae atgaegaaae tecateteta teaaaaatae 3421 aaaaaattaa ctaggtgtgg tgctgcacgc ctgtggtccc agctattcag gaggctgagg 3481 tgggaggatc atttgagccc agaggtagag gctgcagtga gccatgatca tgccactgca 3541 ctctgggctg ggtaacagag tgagatcctg tctcaaaaat taattaatta attaattaaa 3601 ataaactagg taaacttgga taggcagtag atatttttgc ccacctgagg aggatctcag 3661 tcaagctgtt gcttaacagc ttgatccagg gcgtgaaagg ttagttgaga ctgaagtgtt 3721 cacttccata gaagaacatc acttttaacc ttgctttggc gaagggagtc ggaaagctga 3781 gtctctatgg acggggggt gatcttgctt tcagtgttcc ctcagctttt gtggatttaa 3841 aaccattctg ctccccctaa accttttgtt tgatttcagc ccatgttctt gacaatgcag 3901 agcaattotg agcagtoaca aagcotacto totgttottg tocotgocaa coccaccoo 3961 ccataatctg actcacaact tcaccatcag ttggggtcat accactagtc tctgtcctat 4021 accccatgaa atgtaaatac tgtatcataa gtagaagaaa ataatttttg ttttctaaaa 4081 atgcattttg agatagttta atgtaaatct gacaggagca ttctgaagcc ccattaggaa 4141 aaaatttaaa tggttcctct tcatcgcctt aatgtctaaa gatcagaaat cgctgagcaa 4201 acccgctttt gtttccttcc cagaaacaat gcaaaacaac aggtggagat agtctggtct 4261 ttgccctgct gtgtgtgcct ctgtagctcc tcctgacaaa cgtctgggaa aacagcctca 4321 ccccactctc ctctctctc cccatttcct tgtagcttta ttccttgcat ctttgggtct 4381 actgagcagt gggtgctgag gtgacagggg aggaaccagt tgttctgtag cctaggaact 4441 gcctcagtgt ctttgccaga aaaaggcaaa gaggcggaca gtgcagggct cctccctcct 4501 acctcaggec tgatecateg tgeeettgae tttgeegtet caaagtttet tagetgaett 4561 tggctttcac atttgttctt tccaqaqcta actqataaqa qtqqaqqq aatqccttct 4621 cctaagagtc agttgaaaga aagacaagag agtcacatct tagcttttgc acaaggcatt 4681 cgtggtcagg aataggttag ggaatggtca cttctgattt tccaacagtt gctccttctc

Inventor: Pulst and Huynh Filing Date: Herewith Attorney Client-Matter No.: 66783-145 Tel: 858-535-9001

4741 tgaagagate ttgatteett tgggaagaca agaatttte ttaataacaa aggteaettt
4801 atgagttatt eettettea gtteatetea etggageaca geeaagatgg acatgttat
4861 ggacagtget etagatgtga aaacagatag aactggtttg tgggacaggg geagettget
4921 caggagaggg aataacgeag gteeettte ttggaagget tgtaetatgg eeatgacagt
4981 gacattgeee teaceatgat eeeteteeaa agtggttgte tttetttaee ttgtgtette
5041 tettgtaaaa atgaaactea aaaataaaat aaatgtgtea aatttegaaa aaaaaaaaa
5101 aaa

FIGURE 12C CONTINUED

Inventor: Pulst and Huynh Filing Date: Herewith Attorney Client-Matter No.: 66783-145

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MAEITNIRPSFDVSPVVAGLIGASVLVVCVSVTVFVWSCCHQQA

EKKHKNPPYKFIHMLKGISIYPETLSNKKKIIKVRRDKDGPGREGGRRNLLVDAAEAG

LLSRDKDPRGPSSGSCIDQLPIKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGS

 $\verb|LTFSVDYNFPKKALVVTIQEAHGLPVMDDQTQGSDPYIKMTILPDKRHRVKTRVLRKT|$

 $\verb|LDPVFDETFTFYVIPYSQLQDLVLHFLVLSFDRFSRDDVIGEVMVPLAGVDPSTGKVQ|$

LTRDIIKRNIQKCISRGELQVSLSYQPVAQRMTVVVLKARHLPKMDITGLSGNPYVKV

NVYYGRKRIAKKKTHVKKCTLNPIFNESFIYDIPTDLLPDISIEFLVIDFDRTTKNEV

VGRLILGAHSVTASGAEHWREVCESPRKPVAKWHSLSEY

FIGURE 12D